

Applicant: Peterson *et al.*  
For: ELECTROSTATICALLY CHARGED AEROSOL  
DECONTAMINATION SYSTEM AND METHOD

1                    1.        An electrostatically charged aerosol decontamination system comprising:  
2                                       a source of decontamination reagent;  
3                                       an aerosol device for converting said decontamination reagent into an  
4                    aerosol fog; and  
5                                       an electrostatic charging circuit for inducing an electrostatic charge on the  
6                    aerosol particles for attracting them to the medium to be neutralized.

1                    2.        The electrostatically charged aerosol decontamination system of claim 1 in  
2                    which said aerosol device includes a nozzle.

1                    3.        The electrostatically charged aerosol decontamination system of claim 2 in  
2                    which said aerosol device includes a source of pressurized fluid and said nozzle is  
3                    connected to said source of pressurized fluid and said source of decontamination reagent.

1                    4.        The electrostatically charged aerosol decontamination system of claim 2 in  
2                    which said aerosol device includes a pressurizing device for pressurizing the  
3                    decontamination reagent for delivery to said nozzle.

1                    5.        The electrostatically charged aerosol decontamination system of claim 1 in  
2                    which said aerosol device includes a rotating disc and a delivery device for delivering a

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3 flow of decontamination reagent to said rotating disc.

1 6. The electrostatically charged aerosol decontamination system of claim 1 in  
2 which said decontamination reagent is a fluid.

1 7. The electrostatically charged aerosol decontamination system of claim 1 in  
2 which said decontamination reagent is a powder.

1 8. The electrostatically charged aerosol decontamination system of claim 1 in  
2 which said medium is a contaminating agent.

1 9. The electrostatically charged aerosol decontamination system of claim 1 in  
2 which said medium is a contaminated body.

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- 1           10.    A method of electrostatically charged aerosol decontamination comprising: /  
2                   generating an aerosol fog of a decontamination reagent;  
3                   electrostatically charging the aerosol particles; and  
4                   dispensing the electrostatically charged aerosol particles in a contaminated  
5    area to neutralize the contaminating agent.

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